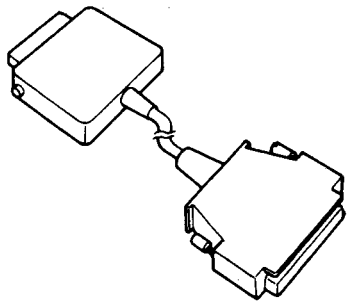
SHARP SERVICE MANUAL

CODE: 00ZOZ792AS/ME

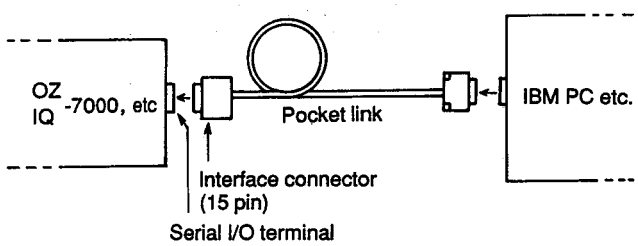


OZ-792A
IQ-792A
MODEL CE-133T

Pocket link

<Introduction>

This set is a level converter which converts the level of serial interface signals of the OZ/IQ-7000 or other electric organizer into the level conforming to the EIA RS-232C standards.



Specifications

Model : OZ/IQ-792A

Standards : Conforming to EIA RS-232C

Connectors : 15-pin connector (M) calculator; Connected to a calculator (with serial I/O terminal)
25-pin connector (DB-25(W)); Connected to the peripheral devices.

Power source : (Pocket Link is supplied with power by P.C)

I/O signal level

	Serial I/O terminal	RS-232C connector terminal	
	15-pin connector terminal (I/O signal)	25-pin connector terminal (Output signal)	25-pin connector terminal (Input terminal)
High	+4.5 ~ +5.5V (C-MOS level)	+5 ~ +10V (Load 3 ~ 7KΩ)	+3 ~ +15V
Low	0 ~ +0.4V (C-MOS level)	−5V ~ −10V (Load 3 ~ 7KΩ)	−3 ~ −15V

Interface signal

15-pin connector terminal (Serial I/O terminal) Input : SD
Output : RD
Others : SG, VC1

25-pin connector terminal (RS-232C terminal) Input : TXD, DTR
Output : RXD
Others : SG, FG

Dimensions : 50(W) × 45(D) × 13.5(H)mm

Weight : Approx. 105g

Accessories : Connector cover (RS-232C connector, interface connector, each 1 pc.)
AC adapter (EA-11E)
Operation manual

Main fanctions and menus

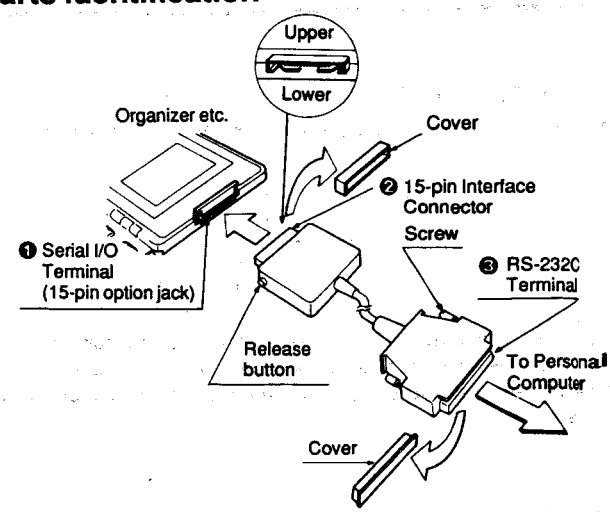
Organizer Link performs three main functions:

- Data Transfer:
  Organizer Link sends and receives files between the Organizer and the PC.
- Data Creation:
  Organizer Link allows you to enter data on a PC for use with the Organizer's Teelephone, Memo, and Schedule applications and to store the new information in a file on the PC.
- Data Conversion:
  Organizer Link converts data transferred to and from the Organizer into several different file formats and printed reports.

Organizer Link contains four pull-down menus:

- the File menu contains the commands for data transfer and data creation;
- the Application menu lets you select the Organizer application to be used when sending, receiving, creating, or editing Organizer data;
- the Reports menu lets you convert data into reports; and
- the Help menu provides concise instructions and explanations.

Parts identification



NOTE: Remove two covers before connection and replace them after disconnection.

(1) Turn off the power to all devices to be connected.

(2) Reveal the 15-pin interface connector ① and the serial I/O terminal ②.

1989 November Printed in Japan S

SHARP CORPORATION

This document has been published to be used for after sales service only.
The contents are subject to change without notice.

(3) Connect the 15-pin interface connector to the serial I/O terminal on the Organizer.
Connect the RS-232C terminal ③ to the RS-232C connector on the personal computer. (Secure the screws on the RS-232C terminal.)

(4) Turn on the power to all connected devices.

NOTE: • When connecting or disconnecting the interface and a device, make sure to turn off the power to all of the devices involved. If the power is left on, the Organizer, the personal computer, or the device may stop functioning. If this should happen, refer to the operation manual of the nonfunctioning device.

Contents of RS-232C signal

This set is designed for conforming to the EIA (Electronic Industry Association) standards.

(1) Electrical characteristics

① When I/O signal is below –3V, it is recognized as the mark state, and when it is above +3V, it is recognized as the space state.

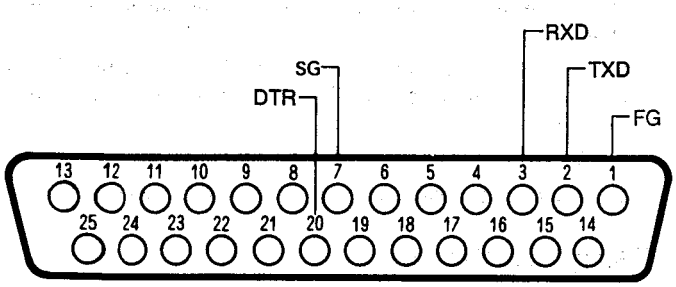
② The impedance in the load side should be an DC resistance of 3KΩ to 7KΩ for the applied voltage of 3 ~ 25V.

③ The output signal is at –5 to –15V in the mark state, and at +5 to +15V in the space state.

④ The effective load capacity at the terminal end should be 2500PF or less including the cable capacity.

(2) Connector signal

This set is equipped with DB-25(W) as the connector for RS-232C.



Connector signal (DB-25(W))

The I/O terminal levels of 25-pin connector DB-25(W) are as follows:

Input level:	High +3 ~ +15V Low –3 ~ –15V
Output signal:	High +5 ~ +10V Low –5 ~ –10V

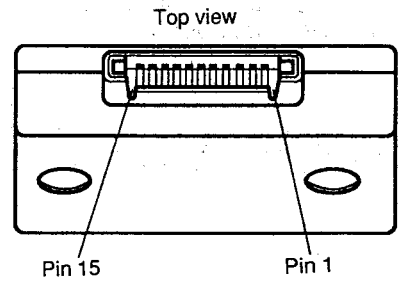
The output signal levels are for load of 3 ~ 7KΩ and cable length of 1m. When the load is outside the above range, the use of longer cable or greater capacity may result in deviation from the above conditions.

Pin arrangement

Pin No.	Signal name	Code	Signal direction viewed from the set	Outline of function
1	Frame GND	FG		GND for maintenance
2	Send data	TXD	Input	Data sent from the PC.
3	Receive data	RXD	Output	Data received by the PC.
7	Signal GND	SG		The reference voltage for I/O devices
20	Data set ready	DTR	Input	Always maintained at High level.

Signals used in the serial I/O terminal

The set is equipped with a 15-pin interface connector (serial I/O terminal), used for connecting to the Organizer.
The pins used and their signals are described below.



Pin arrangement

Pin No.	Signal name	Code	Signal direction viewed from the set	Outline of function
1	Frame GND	FG		GND for maintenance
2	Send data	SD	Input	Input signal from the electronic organizer
3	Receive data	RD	Output	Output signal to the electronic organizer
7	Signal GND	SG		The reference voltage for I/O devices.
10		Vcc		Power voltage of the electronic organizer.

Note) 1. High level means the voltage level of Vcc (+4.5V to +5.5V), and Low level means the voltage level of SG (0 to +0.4V).

2. Since C-MOS parts are used in the set, application of a voltage which exceeds the allowable range (voltage between SG and Vcc) to the set may break the set.

(3) Circuit descriptions

This cable operates on the power supplied from the signal line of a personal computer.

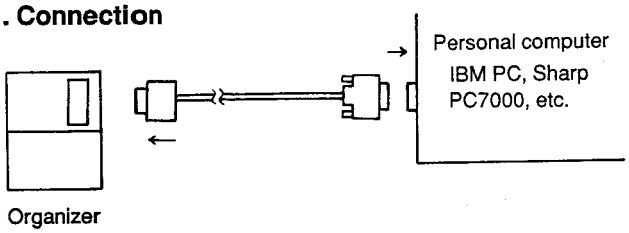
i) The positive potential of the power of the circuit is taken from the DTR and is applied to VDD of the IC1 (MC145406). The DTR voltage is dropped to 5V by the regulator to be used as the power for the IC1 receiver. The DTR signal is fixed to High (about 7 to 9V) by the software of the PC link.

ii) The negative potential of the power of the circuit is taken from the TXD. Though the TXD is normally at Low (about –9 to –7V), it occasionally becomes High during transmission depending on the bit composition of the data. Therefore it is rectified by DI1 and smoothed by C3.

iii) The High level of the RD signal at 15 pin connector is about +4.5 to +5.5V. If the battery voltage of the electronic organizer falls below that level, it is clamped by D3 to protect the internal IC's. R1 is used for limiting a current in this case.

Operation check

1. Connection



2. Operating procedure

① Connect the connectors as shown in the above figure.

② Boost the PC LINK software with the personal computer.

③ Set the Organizer to the PC LINK mode.

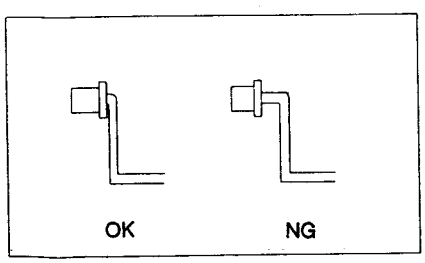
④ Perform communication.

⑤ Check that there is no error indication for either of RECEIVE or SEND and that the communication is made properly.

Note for assembly

1. Lock release button attachment

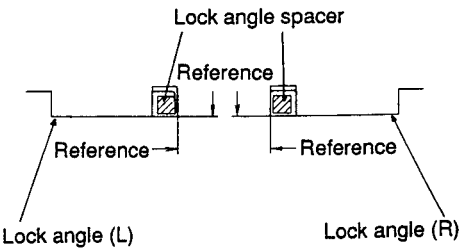
Insert scurely.



2. Spring attachment

Hook the spring securely on cabinet B and the lock angle pawl.

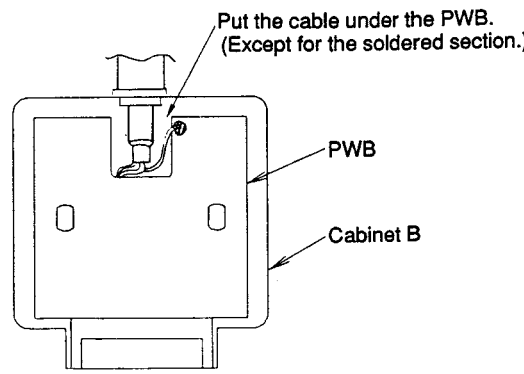
3. Lock angle spacer attachment



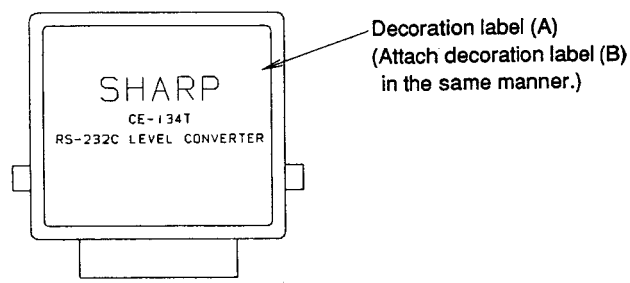
Attach the lock angle spacer to the reference side as far as possible, as shown in the above figure. Press it firmly to assure attachment. (Do not allow the spacer to exceed from the angle.)

4. Cable treatment

Put the cables between cabinet B and the PWB.

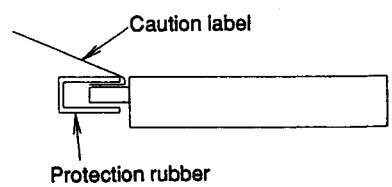


5. Decoration label attachment



- Attach decoration labels in the concave section of the cabinet without covering a corner.

6. Caution label attachment

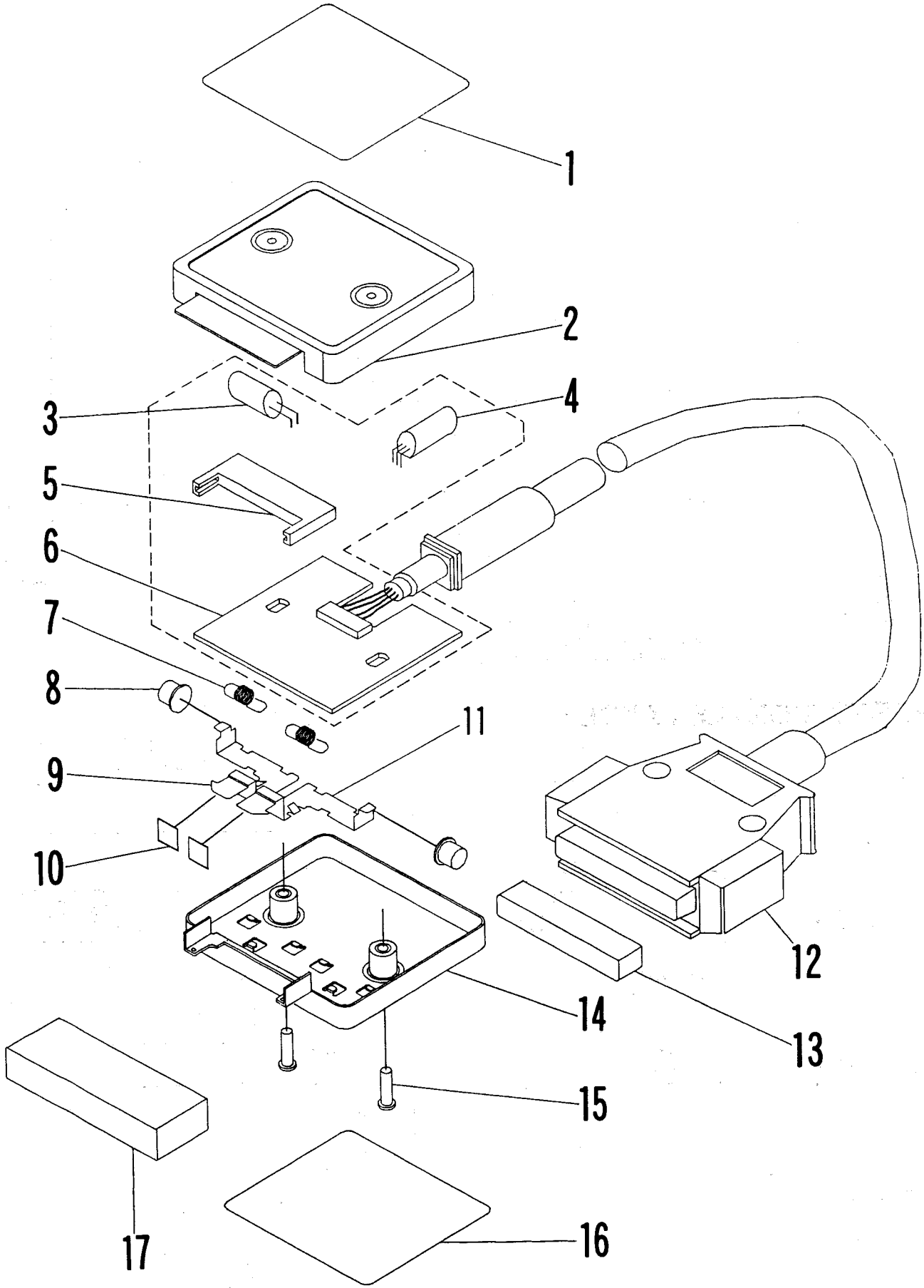


As shown above, put the caution label in the protection rubber (15 pin).

[redacted]
OZ-792A
IQ-792A

PARTS LIST & GUIDE

NO.	PARTS CODE	PRICE RANK	NEW MARK	PART RANK	DESCRIPTION	OZ/IQ 793A	CE 133T
1	TLABM2954CCZZ	AC	N	D	Decoration label(A)	○	
	TLABM2931CCZZ	AC	N	D	Decoration label(B)		○
2	GCABA2988CCZZ	AQ	N	D	Bottom cabinet	○	○
3	VCEAGU1CW476M	AB		C	Capacitor (16WV 47μF)	○	○
4	VHiTA78DS05P1	AG	N	B	IC (TA78DS05P1)	○	○
5	QCNCM1367CC1E	AK		C	Connector (15pin)	○	○
6	DUNTK286DCCZZ	AW	N	E	PWB unit	○	○
7	MSPRC1358CCZZ	AA	N	C	Spring for fixing angle	○	○
8	JKNBZ2078CCZZ	AB	N	C	Release knob for fixing angle	○	○
9	LANGA1641CCZZ	AC	N	C	Fixing angle L	○	○
10	PSPAP1370CCZZ	AA		C	Spacer for lock angle	○	○
11	LANGA1640CCZZ	AC	N	C	Fixing angle R	○	○
12	QCNW-1394CCZZ	AX	N	B	Cable (25P)	○	○
13	PHOG-1097CCZZ	AC		C	Protect cover	○	○
14	GCABB2987CCZZ	AQ	N	D	Top cabinet	○	○
15	XBBSF20P10000	AA		C	Screw (2×10)	○	○
16	TLABZ2955CCZZ	AB	N	D	Decoration label(B)	○	
	TLABZ2932CCZZ	AB	N	D	Decoration label(B)		○
17	PHOG-1093CCZZ	AB		C	Rubber cap for 11pin connector cable	○	○
101	RC-CZD105ECZZ	AC		C	Capacitor (1μF)	○	○
102	RH-DZ1001ECZZ	AD		B	Diode (1SR148)	○	○
103	VCKYTP1EF104Z	AA		C	Capacitor (25WV 0.10μF)	○	○
104	VHDDAN202K/-1	AB		B	Diode (DAN202K)	○	○
105	VHiMC145406F-	AL		B	IC (MC145406F)	○	○
106	VRS-TP2BD103J	AA		C	Resistor (1/8W 10KΩ ±5%)	○	○
107	VRS-TP2BD104J	AA		C	Resistor (1/8W 100KΩ ±5%)	○	○
201	TiNSE5262CCZZ	AP	N	D	Instruction book (for U.S.A.)	○	
	TiNSE5263CCZZ	AU	N	D	Instruction book (for Australia,U.kigdom)	○	
	TiNSL5264CCZZ	AR	N	D	Instruction book (except for U.S.A.,Australia,U.kingdom)	○	
	TiNSE5258CCZZ	AP	N	D	Instruction book (for U.S.A.)		○
	TiNSL5259CCZZ	AP	N	D	Instruction book (except for U.S.A.)		○
202	TCAUK1198CCZZ	AA		C	Caution card for 11pin connector rubber cap	○	○
203	UBNDA1008CCZZ	AA		C	AC cord band (120mm)	○	○
204	SPAKA010DCCZZ	AB		D	Packing cushion	○	○
205	SPAKA346DCCZZ	AB	N	D	Packing cushion	○	○
206	SPAKC350DCCZZ	AF	N	D	Packing case (for U.S.A.)	○	
	SPAKC347DCCZZ	AF	N	D	Packing case (for Canada)	○	
	SPAKC353DCCZZ	AF	N	D	Packing case (for Australia,U.kingdom)	○	
	SPAKC357DCCZZ	AF	N	D	Packing case (except for U.S.A.,Canada,Australia,U.kingdom)	○	
	SPAKC291DCCZZ	AF	N	D	Packing case (for U.S.A.,Canada)		○
	SPAKC295DCCZZ	AF	N	D	Packing case (except for U.S.A.,Canada)		○
207	SSAKA0302CCZZ	AA		D	Vinly bag (160×200mm)	○	○
208	SSAKA1130QCZZ	AA		D	Vinyl bag (100×120mm)	○	○
209	SSAKH1020CCN1	AA		D	Vinyl bag (120×220mm)	○	○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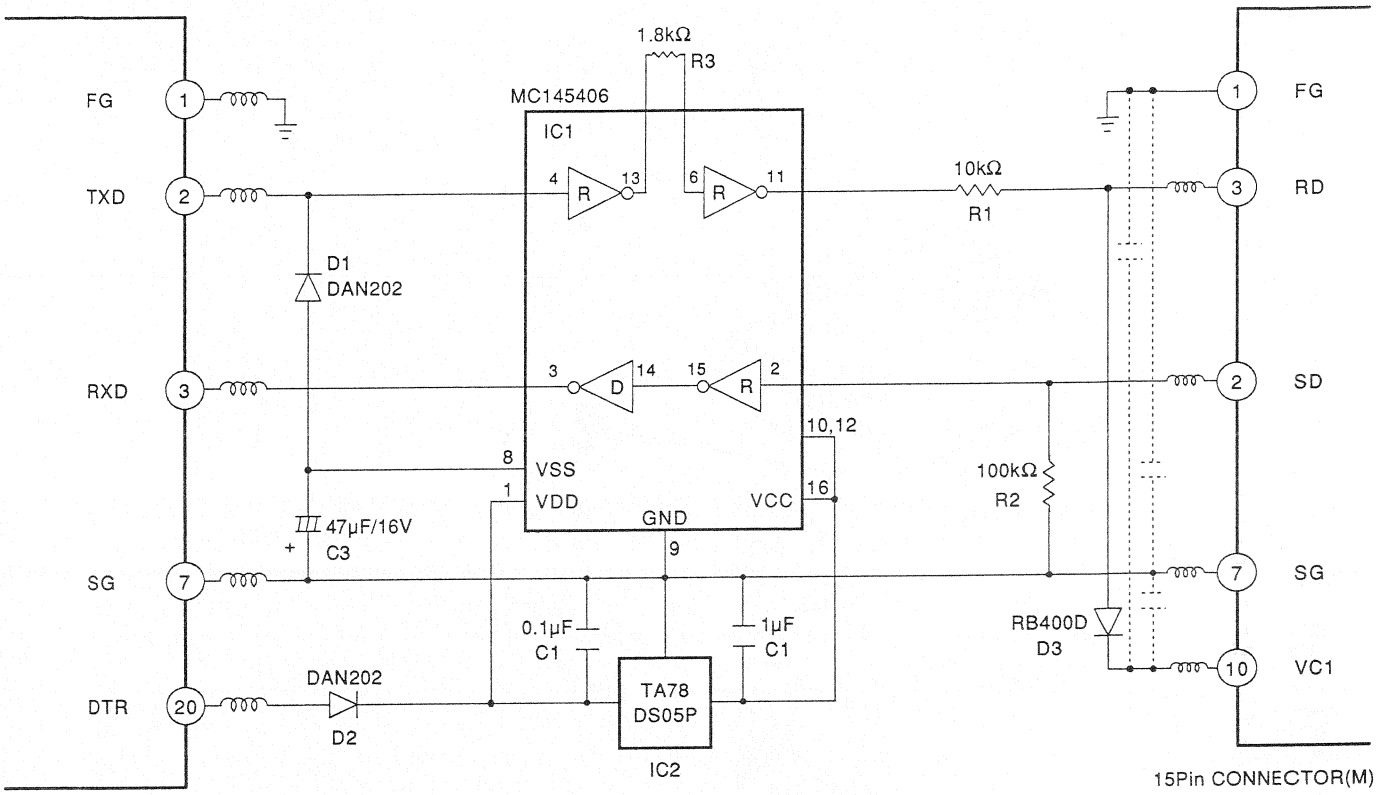
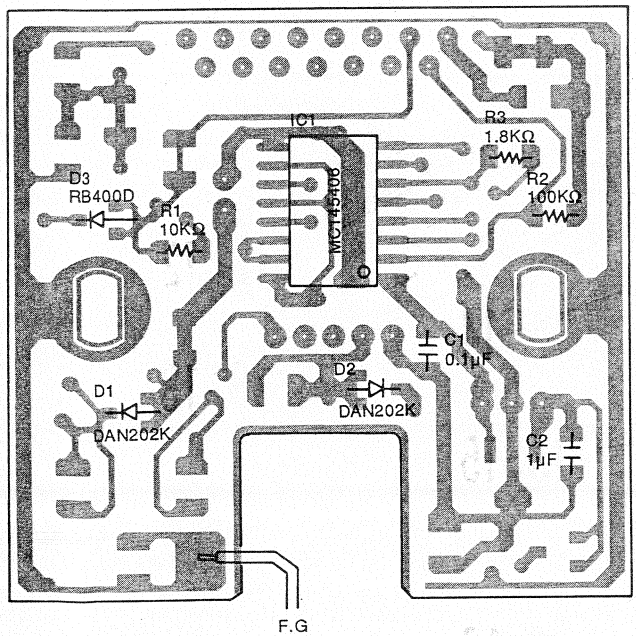
OZ-792A
IQ-792A

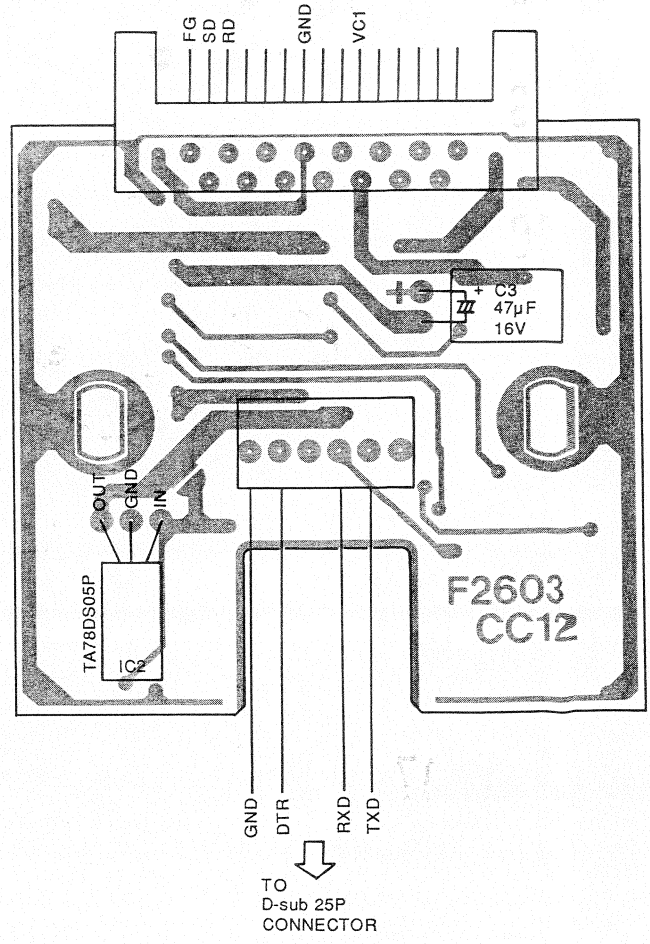
CIRCUIT DIAGRAM



- Only the patterns of the capacitors with dotted lines are considered.
- Only the patterns of the coils are considered.(Shorted on the pattern.)

PARTS SIGNALS LAYOUT





SHARP

Date : Aug.10, 1995

ELECTRONIC ORGANIZER:CE-133 (TY/TE),CE-135 (TY/TE)

No. : EO-076

Technical Report

A CHANGE TO THE OPERATION MANUAL

1.Model Name: CE-133 (TY/TE), CE-135 (TY/TE)

2.General: For the models indicated above, the statement of compliance with EMI regulations has been changed. As a result, the operation manual has been changed as follows.

(The noise guard has been discontinued, and the statement of compliance is now included in the operation manual.)

3.Part changes:

Ref. No.	Model name	Version	P/G No.	Current parts	New parts		Parts name	Effective time	Interchangeability	Note
				Parts code	Parts code	Price rank				
1	CE-133 TY/TE	U.K Canada	[1] -201	TINSL5259CCZZ	TINSL1227PCZZ	AG	Operation manual	1st lot '95/7	3	
	CE-135 TY/TE			TINSL5639CCZZ	TINSL1228PCZZ	AQ		1st lot '95/6		

<interchange>

1. Interchangeable.	4. Not interchangeable.
2. Current type can be used in place of new type. New type cannot be used in place of current type.	5. Interchangeable if replaced with same types of related parts in use
3. Current type cannot be used in place of new type. New type can be used in place of current type.	6. Others.

Parts marked with "⚠" is important for maintaining the safety of the set. Be sure to replace these parts with specified ones for maintaining the safety and performance of the set.